THE CONDOR

JOURNAL OF THE COOPER ORNITHOLOGICAL SOCIETY

VOLUME 95

GLENN E. WALSBERG, *Editor*

CHRISTOPHER W. THOMPSON, *Book Review Editor*

ANNETTE C. KEELER, *Managing Editor*

1993

CONTENTS, VOLUME 95, 1993

NUMBER 1 (February)

Breeding Dispersal in Indigo Buntings: Circumstances and Consequences for Breeding Success and Population Structure
ROBERT B. PAYNE and LAURA L. PAYNE 1

Digestibility of Three Fish Species by Double-crested Cormorants
KRISTIN E. BRUGGER 25

Variations in the Distributions of Marine Birds with Water Mass in the Northern Bering Sea
CHRIS S. ELPHICK and GEORGE L. HUNT, JR. 33

Intraspecific Variation in the Use of Nutrient Reserves by Breeding Female Mallards
ANDREW D. YOUNG 45

Patterns of Parental Provisioning by Eastern Phoebes
KELVIN F. CONRAD and RALEIGH J. ROBERTSON 57

Geographic Variation in Coloration and Morphology of the Acorn Woodpecker
HESIQUIO BENÍTEZ-DÍAZ 63

Nest Predation in the Mountain White-crowned Sparrow
MARTIN L. MORTON, KEITH W. SOCKMAN and LINDA E. PETERSON 72

The Effect of Nest Predation on Habitat Selection by Dusky Flycatchers in Limber Pine-Juniper Woodland
JOHN P. KELLY 83

Nonrandom Shorebird Distribution and Fine-Scale Variation in Prey Abundance
MARK A. COLWELL and SARAH L. LANDRUM 94

Shorebird Community Patterns in a Seasonally Dynamic Estuary
MARK A. COLWELL 104

Energetics of Incubation in Free-Living Orange-breasted Sunbirds in South Africa
JOSEPH B. WILLIAMS 115

Effect of Vegetation Height on Hunting Behavior and Diet of Loggerhead Shrikes
REUVEN YOSEF and THOMAS C. GRUBB, JR. 127

Winter Foraging Ecology of Bald Eagles in Arizona
BRYAN T. BROWN 132

Nesting Associations of Least Bitterns and Boat-tailed Grackles
WILLIAM POST and CAROL A. SEALS 139

Distribution and Abundance of Piping Plovers: Results and Implications of the 1991 International Census
SUSAN M. HAIG and JONATHAN H. PLISSNER 145

Do Free-Ranging Common Nighthawks Enter Torpor?
MITCHELL C. FIRMAN, R. MARK BRIGHAM and ROBERT M. R. BARCLAY 157

Red Breasts as Honest Signals of Migratory Quality in a Long-Distance Migrant, the Bar-tailed Godwit
THEUNIS PIERSMA and JOOP JUKEMA 163

The Diets of Neotropical Trogons, Motmots, Barbets and Toucans
J. V. REMSEN, JR., MARY ANN HYDE and ANGELA CHAPMAN 178

The Energetics of Migration and Reproduction of Dusky Canada Geese
ROBERT G. BROMLEY and ROBERT L. JARVIS 193

SHORT COMMUNICATIONS

Estradiol Cypionate (ECP) Markedly Improves Survival of Willow Ptarmigan in Captivity
KATHY MARTIN and CYNTHIA A. WRIGHT 211

Does Brown-headed Cowbird Egg Coloration Influence Red-winged Blackbird Responses Towards Nest Contents?
JOSEPH C. ORTEGA, CATHERINE P. ORTEGA and ALEXANDER CRUZ 217

Effect of Mate Removal on Nest Success of Female Wood Ducks
DANIEL L. HIPES and GARY R. HEPP 220

Survival and Pre-Fledging Body Mass in Juvenile Emperor Geese
JOEL A. SCHMUTZ 222

Nesting of the Northern Fulmar on the Western Bering Sea Coast
P. S. VYATKIN 226

Behavior, Vocalizations and Possible Relationships of *Xenornis setifrons* (Formicariidae), a Little-Known Chocó Endemic
BRET M. WHITNEY and GARY H. ROSENBERG 227

Prey Transport by Loggerhead Shrikes
REUVEN YOSEF 231

Individual and Intersexual Variation in Alarm Calls of the White-tailed Hawk
C. CRAIG FARQUHAR 234

Old Nests as Cues for Nest-Site Selection by Birds: An Experimental Test in Small Even-Aged Forest Plots
RICHARD H. YAHNER 239

BOOK REVIEWS 242

NEW BOOKS IN ORNITHOLOGY 245

NEWS AND NOTES 251

PROPOSED BYLAWS CHANGES 253

INFORMATION FOR CONTRIBUTORS 269

NUMBER 2 (May)

Factors Affecting Renesting in American Coots
TODD W. ARNOLD 273

Incubation and Fledging Durations of Woodpeckers
YORAM YOM-TOV and AMOS AR 282

The Nest Defense Behavior of Eastern Screech-Owls: Effects of Nest Stage, Sex, Nest Type and Predator Location
THOMAS McKELL SPROAT and GARY RITCHISON 288

An Experimental Study of Nest Predation in Adjacent Deciduous, Coniferous and Successional Habitats
LINDA C. SEITZ and DAVID A. ZEGERS 297

A New Method for Estimating Individual Speed of Molt
STAFFAN BENSCH and MATS GRAHN 305

Correlates of Hunting Range Size in Breeding Merlins
NAVJOT S. SODHI 316

Effects of Interference Competition on the Foraging Activity of Tropical Roseate Terns
DAVID A. SHEALER and JOANNA BURGER 322

Behavioral Ecology of Black-legged Kittiwakes During Chick Rearing in a Failing Colony
BAY D. ROBERTS and SCOTT A. HATCH 330

The Effects of Weather and Lunar Cycle on Nocturnal Migration of Landbirds at Southeast Farallon Island, California
PETER PYLE, NADAV NUR, R. PHILIP HENDERSON and DAVID F. DeSANTE 343

An Experimental Study of Brood Reduction and Hatching Asynchrony in Yellow Warblers
PERCY NORMAN HÉBERT 362

Wintering Shorebirds Increase After Kelp (*Macrocystis*) Recovery
RICHARD A. BRADLEY and DAVID W. BRADLEY 372

Body Composition of Wintering Canvasbacks in Louisiana: Dominance and Survival Implications
WILLIAM L. HOHMAN 377

Stable-Nitrogen Isotope Enrichment in Avian Tissues Due to Fasting and Nutritional Stress: Implications for Isotopic Analyses of Diet
KEITH A. HOBSON, RAY T. ALISAUSKAS and ROBERT G. CLARK 388

An Experimental Test of the Contrasting-Color Hypothesis of Red-Band Effects in Red-winged Blackbirds
KAREN J. METZ and PATRICK J. WEATHERHEAD 395

Microclimate of Ground Nests: The Relative Importance of Radiative Cover and Wind Breaks for Three Grassland Species
KIMBERLY A. WITH and D. R. WEBB 401

Song Dialect Recognition by Male White-crowned Sparrows: Effects of Manipulated Song Components
ANDREW D. THOMPSON, JR. and MYRON C. BAKER 414

Variability Profiles for Line Transect Bird Censuses in a Tropical Dry Forest in Mexico
JUAN FRANCISCO ORNELAS, MARÍA DEL CORO ARIZMENDI, LAURA MÁRQUEZ-VALDELAMAR, MA. DE LOURDES NAVARIJO and HUMBERTO A. BERLANGA 422

Patterns of Sperm Storage in Relation to Sperm Competition in Passerine Birds
JAMES V. BRISKIE and ROBERT MONTGOMERIE 442

SHORT COMMUNICATIONS

Habitat Separation and Arthropod Resource Use in Three Lesser Antillean Hummingbirds
FELIPE CHAVEZ-RAMIREZ and SEN S. TAN 455

Relative Abundance and Seasonal Distribution of Seabirds in the Canal de Ballenas, Gulf of California
BERNIE R. TERSHY, ELLEN VAN GELDER and DAWN BREESE 458

Feathers from Museum Bird Skins—A Good Source of DNA for Phylogenetic Studies
PETER LEETON, LESLIE CHRISTIDIS and MICHAEL WESTERMAN 465

Observer Effects on Common Goldeneye Nest Defense
MARK L. MALLORY and PATRICK J. WEATHERHEAD 467

Observations on the Fall Migration of Eared Grebes, Based on Evidence from a Mass Downing in Utah
JOSEPH R. JEHL, JR. 470

The Prevalence of Abdominal Lesions on Wood Stork Nestlings in North and Central Florida
JAMES A. RODGERS, JR., STEPHEN T. SCHWIKERT and ANNE S. WENNER 473

Wintering Swainson's Hawks in Argentina: Food and Age Segregation
ALVARO P. JARAMILLO 475

Notes on the Biology of the Spot-fronted Swift
MANUEL MARÍN A. and F. GARY STILES 479

Food Caching and Its Possible Origin in the Brown Creeper
STEVEN L. LIMA and ROBERT M. LEE, III 483

Motivation and Measures of Accessibility
MARK S. WITTER 485

BOOK REVIEWS 489

NEW BOOKS IN ORNITHOLOGY 491

COPIES OF JOURNAL ARTICLES OFFERED BY WFVZ 495

NUMBER 3 (August)

Intraspecific Variation in the Hindlimb Muscles of the Ivory-billed Woodcreeper and the Blue Jay, with a Review of Other Species
ROBERT J. RAIKOW, ANTHONY H. BLEDSOE, TAHNIAT SYED and ANGELA G. GLASGOW 497

Benign Neglect of Terminal Eggs in Herring Gulls
SANDRA C. LEE, ROGER M. EVANS and SHAWN C. BUGDEN 507

Winter Territories and Night Roosts of Northern Shrikes in Idaho
ERIC C. ATKINSON 515

Winter Foraging and Diet Composition of Northern Shrikes in Idaho
ERIC C. ATKINSON and TOM J. CADE 528

Factors Limiting Fecundity of Captive Brown-headed Cowbirds
KENNETH C. HOLFORD and DANIEL D. ROBY 536

Tree Swallows Cannot Be Classified as Determinate or Indeterminate Layers
JEREMY S. MITCHELL and RALEIGH J. ROBERTSON 546

Free-Living Willow Ptarmigan are Determinate Egg-Layers
BRETT K. SANDERCOCK 554

The Effect of Restricted Feeding on Plasma Growth Hormone (GH) Concentrations in Growing American Kestrels
DIANE LACOMBE, DAVID M. BIRD, COLIN G. SCANES and KATHY A. HIBBARD 559

Selection of Foraging and Nesting Sites by Black-throated Blue Warblers: Their Relative Influence on Habitat Choice
BENJAMIN B. STEELE 568

An Endogenous Basis for Differential Migration in the Dark-eyed Junco
REBECCA L. HOLBERTON 580

Geographic Variation in the Song of the Rufous-collared Sparrow in Eastern Argentina
PABLO L. TUBARO, ENRIQUE T. SEGURA and PAUL HANDFORD 588

Food Choices by Northwestern Crows: Experiments with Captive, Free-Ranging and Hand-Raised Birds
MARY F. WILLSON and TALLCHIEF A. COMET 596

Dietary Shifts Among Songbirds from a Diflubenzuron-Treated Forest
BRADLEY E. SAMPLE, ROBERT J. COOPER and ROBERT C. WHITMORE 616

Ruffed Grouse Tolerance and Biotransformation of the Plant Secondary Metabolite Coniferyl Benzoate
WALTER J. JAKUBAS, WILLIAM H. KARASOV and CHRISTOPHER G. GUGLIELMO 625

Geographic Variation in the Yellow-billed Cacique, *Amblycercus holosericeus,* A Partial Bamboo Specialist
ANDREW W. KRATTER 641

Geographic Variation in Ontogeny of the Fox Sparrow
KEVIN J. BURNS 652

Distribution and Abundance of Marbled Murrelets in Alaska
JOHN F. PIATT and R. GLENN FORD 662

Hybridization and Male Parental Investment in Birds
RAYMOND PIEROTTI and CYNTHIA A. ANNETT 670

The Annual Molt Cycle of *Branta canadensis interior* in Relation to Nutrient Reserve Dynamics
ROBERT J. GATES, DAVID F. CAITHAMER, THOMAS C. TACHA and CHARLES R. PAINE 680

Abundance and Distribution of Migrant Shorebirds in Delaware Bay
KATHLEEN E. CLARK, LAWRENCE J. NILES and JOANNA BURGER 694

SHORT COMMUNICATIONS

Predation of Nesting Larids by Peregrine Falcons at Rasa Island, Gulf of California, Mexico
ENRIQUETA VELARDE 706

Direct and Indirect Consequences of Mink Presence in a Common Tern Colony
GARY P. BURNESS and RALPH D. MORRIS 708

Does Predator Assemblage Affect Reproductive Success in Songbirds?
CLINTON K. MILLER and RICHARD L. KNIGHT 712

A Parametric Method for Comparing Dispersal Distances
J. MICHAEL REED 716

Social Tutoring of Adult Male White-crowned Sparrows
RICHARD M. CASEY and MYRON C. BAKER 718

Aggression and Song Development in White-crowned Sparrows
RICHARD M. CASEY and MYRON C. BAKER 723

Do Swallows Sunbathe to Control Ectoparasites? An Experimental Test
CHARLES R. BLEM and LEANN B. BLEM 728

Effects of Nestling Provisioning on the Time-Activity Budgets of Male Red-winged Blackbirds
LINDA A. WHITTINGHAM 730

Maximum Diving Depths of Cape Gannets
N. J. ADAMS and C. B. WALTER 734

Indentation Hardness of the Bill Keratin of the European Starling
RICHARD H. C. BONSER and MARK S. WITTER 736

Food Habits of the Scarlet and White Ibis in the Orinoco Plains
EDUARDO AGUILERA, CRISTINA RAMO and BENJAMIN BUSTO 739

Characteristics of Cache Sites Most Likely to be Robbed by Willow Tits (*Parus montanus*)
KIMMO INKI and JUKKA SUHONEN 742

Thermoregulation in Free-ranging Whip-Poor-Wills
M. BRIAN C. HICKEY 744

HISTORICAL PERSPECTIVES

History of *The Condor*
GLENN E. WALSBERG 748

EDITORIAL AND COMMENTARY

The Treatment of Biologists by the U.S. Fish and Wildlife Service
GLENN E. WALSBERG 758

Letter to the Editor
RUSSELL P. BALDA 759

BOOK REVIEWS

A. R. Phillips' *The Known Birds of North and Middle America. Part 2, Bombycillidae, Sylviidae to Sturnidae, Vireonidae*
JOHN P. HUBBARD 761

B. C. R. Bertram's *The Ostrich Communal Nesting System*
WALTER D. KOENIG 762

NEW BOOKS IN ORNITHOLOGY 764

NEWS AND NOTES 767

NUMBER 4 (November)

Vocal Repertoire of the Long-tailed Manakin and Its Relation to Male-Male Cooperation
JILL M. TRAINER and DAVID B. McDONALD 769

Factors Affecting Which Male Red-winged Blackbirds Acquire Territories
LES D. BELETSKY and GORDON H. ORIANS 782

Stomach Oil and the Energy Budget of Wilson's Storm-Petrel Nestlings
BRYAN S. OBST and KENNETH A. NAGY 792

Species-Habitat Relationships Among Antarctic Seabirds: A Function of Physical or Biological Factors?
DAVID G. AINLEY, CHRISTINE A. RIBIC and LARRY B. SPEAR 806

Importance of Landfills to Nesting Herring Gulls
JERROLD L. BELANT, THOMAS W. SEAMANS, STEVEN W. GABREY and SHERI K. ICKES 817

Activity Patterns of Marbled Murrelets in Old-Growth Forest in the Queen Charlotte Islands, British Columbia
MICHAEL S. RODWAY, HEIDI M. REGEHR and JEAN-PIERRE L. SAVARD 831

Incubation Rhythms and Mass Loss of Common Goldeneyes
MARK L. MALLORY and PATRICK J. WEATHERHEAD 849

Adoption of Young and Intraspecific Nest Parasitism in Barnacle Geese
SHARMILA CHOUDHURY, CATHERINE S. JONES, JEFFREY M. BLACK and JOUKE PROP 860

Egg-Laying Time and Laying Interval in the Common Eider
MICHELLE D. WATSON, GREGORY J. ROBERTSON and FRED COOKE 869

Habitat and Food Selection by Emperor Goose Goslings
KAREN K. LAING and DENNIS G. RAVELING 879

Mitochondrial DNA Hyperdiversity and Vocal Dialects in a Subspecies Transition of the Rufous-collared Sparrow
STEPHEN C. LOUGHEED, PAUL HANDFORD and ALLAN J. BAKER 889

Spatial and Temporal Abundance Patterns of Ruddy Quail-Doves (*Geotrygon montana*) Near Manaus, Brazil
PHILIP C. STOUFFER and RICHARD O. BIERREGAARD, JR. 896

Distribution of Overwintering Nearctic Migrants in the Bahamas and Greater Antilles
JOSEPH M. WUNDERLE, JR. and ROBERT B. WAIDE 904

Relation Between Migratory Activity and Energetic Condition Among Thrushes (Turdinae) Following Passage Across the Gulf of Mexico
WANG YONG and FRANK R. MOORE 934

Estimation of Lipids and Lean Mass of Migrating Sandpipers
SUSAN K. SKAGEN, FRITZ L. KNOPF and BRIAN S. CADE . . . 944

Nest Success, Habitat Utilization and Nest-Site Selection of Long-billed Curlews in the Columbia Basin, Oregon
GEOFFREY J. PAMPUSH and ROBERT G. ANTHONY 957

Population Density, Habitat Selection and Minimum Area Requirements of Three Forest-Interior Warblers in Central Missouri
DANIEL G. WENNY, RICHARD L. CLAWSON, JOHN FAABORG and STEVEN L. SHERIFF 968

Scales of Habitat Selection by Foraging 'Elepaio in Undisturbed and Human-Altered Forests in Hawaii
ERIC A. VANDERWERF 980

Frugivory and Coexistence in a Resident and a Migratory Vireo on the Yucatan Peninsula
RUSSELL GREENBERG, DANIEL K. NIVEN, STEVEN HOPP and CAROL BOONE 990

An Experimental Test of the Hamilton-Orians Hypothesis for the Origin of Avian Brood Parasitism
STEPHEN I. ROTHSTEIN 1000

Extra-Pair Paternity in the European Starling: the Effect of Polygyny
HENRIK G. SMITH and TORBJÖRN VON SCHANTZ 1006

Diet and Foraging Behavior of Vaux's Swifts in Northeastern Oregon
EVELYN L. BULL and ROY C. BECKWITH 1016

SHORT COMMUNICATIONS

Rediscovery and Status of a Disjunct Population of Breeding Yellow Rails in Southern Oregon
MARK A. STERN, JOSEPH F. MORAWSKI and GINNY A. ROSENBERG 1024

Daily Energy Expenditure by Nestling House Wrens
CHERYL R. DYKSTRA and WILLIAM H. KARASOV 1028

Supplemental Food and Laying Date in the European Starling
HANS KÄLLANDER and JOHNNY KARLSSON 1031

Sexual Dimorphism in Basal Metabolism and Body Temperature of a Large Bird, the Emu
S. K. MALONEY and T. J. DAWSON 1034

Nesting-Area Fidelity of Sage Grouse in Southeastern Idaho
RICHARD A. FISCHER, ANTHONY D. APA, WAYNE L. WAKKINEN, KERRY P. REESE and JOHN W. CONNELLY 1038

Renesting by Sage Grouse in Southeastern Idaho
JOHN W. CONNELLY, RICHARD A. FISCHER, ANTHONY D. APA, KERRY P. REESE and WAYNE L. WAKKINEN 1041

Evidence of Intraspecific Vocal Imitation in Singing Honeyeaters (Meliphagidae) and Golden Whistlers (Pachycephalidae)
MYRON CHARLES BAKER 1044

Novel Method for Estimating Hours of Oviposition, Illustrated by Data on Gray Catbirds
DAVID M. SCOTT 1048

The Karyotype of the White-winged Dove
MICHAEL F. SMALL, KELLY M. HOGAN and JAMES F. SCUDDAY 1051

Mate and Nest Site Fidelity in a Resident Population of Bald Eagles
J. MARK JENKINS and RONALD E. JACKMAN 1053

COMMENTARY

Song Similarity in Populations of Fox Sparrows: A Rejection of Naugler's and Smith's Conclusions
DENNIS J. MARTIN 1057

Similarity Breeds Confusion: A Reply to Martin
CHRISTOPHER T. NAUGLER and PETER C. SMITH 1059

HISTORICAL PERSPECTIVES

Who Were Harry R. Painton, A. Brazier Howell and Frances F. Roberts?
JACK C. VON BLOEKER, JR. 1061

MILLER RESEARCH AWARD 1064

Academic Family Tree for Loye and Alden Miller
FRANK A. PITELKA 1065

BOOK REVIEWS

Neotropical Wildlife Use and Conservation, edited by J. G. Robinson and K. H. Redford
SCOTT K. ROBINSON and JEFFREY D. BRAWN 1068

Dunnock Behaviour and Social Evolution, by N. B. Davies
PATRICIA ADAIR GOWATY 1069

Population Biology of Passerine Birds: An Integrated Approach, by J. Blondel, A. Gosler, J.-D. Lebreton and R. McCleery
JAMES D. NICHOLS 1070

NEW BOOKS IN ORNITHOLOGY 1074

NEWS AND NOTES 1075

REVIEWERS FOR VOLUME 95 1084

INDEX TO VOLUME 95 1086